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CURRENT SERIAL RECORDS



WATER SUPPLY OUTLOOK FOR IDAHO

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

UNITED STATES DEPARTMENT of AGRICULTURE...SOIL CONSERVATION SERVICE,
and
IDAHO STATE RECLAMATION ENGINEER

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

AS OF
JUNE 1, 1968

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season as they affect runoff will add to be an effective average. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1400 snow courses in Western United States and in the Columbia Basin in British Columbia. In the near future, it is anticipated that automatic snow water equivalent sensing devices along with radio telemetry will provide a continuous record of snow water equivalent at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data or reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

PUBLISHED BY SOIL CONSERVATION SERVICE

D. A. WILLIAMS, Administrator

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, Western Regional Technical Service Center, Room 507, 701 N. W. Glisan, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	P. O. Box "F", Palmer, Alaska 99645
Arizona	6029 Federal Building, Phoenix, Arizona 85205
Colorado (N. Mex.)	12417 Federal Building, Denver, Colorado 80202
Idaho	P. O. Box 38, Boise, Idaho 83707
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Washington St., Portland, Oregon 97205
Utah	4012 Federal Building, Salt Lake City, Utah 84111
Washington	360 Federal Office Building, Spokane, Washington 99201
Wyoming	P. O. Box 340, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia



WATER SUPPLY OUTLOOK FOR IDAHO

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

D.A. WILLIAMS

ADMINISTRATOR
SOIL CONSERVATION SERVICE
WASHINGTON, D C

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STATE CONSERVATIONIST
SOIL CONSERVATION SERVICE
BOISE, IDAHO

In Cooperation with

R. KEITH HIGGINSON

STATE RECLAMATION ENGINEER
DEPARTMENT OF RECLAMATION
BOISE, IDAHO
|||||

Report prepared by

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SOIL CONSERVATION SERVICE
SNOW SURVEY SECTION
P.O. BOX 38, BOISE, IDAHO 83707

WATER SUPPLY OUTLOOK for IDAHO



JUNE 1, 1968

SNOW SURVEYS, SUPPLEMENTAL MEASUREMENTS AND CORRECTIONS

Snow surveys made on key courses throughout the state near the first of June indicate that the high elevation snow melt has been delayed. In general, water content of the snow pack is below normal following the trend established since last fall. Precipitation during May was also light and forecasts in general are expected to be slightly high. Soil moisture conditions on the watersheds continued to dry out except at the very high elevations where there is still snow cover. The critically water short areas delineated in May, such as the small streams running into the Snake River are even more apparent at this time.

The conservation of water in general is of prime importance for the 1968 and possibly the 1969 season.

This report carries corrected measurements made earlier in the season. In some cases, resurveys were made, and others, errors were found in the data.

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
			DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
NAME	NO.	ELEVATION				LAST YEAR	AVERAGE ^b

JUNE 1, 1968 MEASUREMENTS

Atlanta Summit	15F4	7500	6/4	18	9.1	-	-
Big Creek Summit	15E2	6600	6/3	16	7.7	28.4	-
Bogus Basin	16F2	6120	5/28	0	0.0	5.8	-
Brundage Mountain	16D6	7560	5/28	61	32.0	-	-
Elk Butte	16C15	5550	6/1	0	0.0	25.4	-
Galena Summit	14F12	8795	5/31	18	8.2	15.1	-
Gibbons Pass Mont.	13D2	7100	5/31	14	6.4	15.4	-
Goat Lake	14C9	6600	6/1	75	42.8	49.4	-
Granite Peak	15B13	6000	6/1	52	26.7	46.4	-
Hemlock Butte	16C6	5500	6/1	32	19.1	33.0	-
Hoodoo Basin Mont.	15C8	6000	5/28	69	35.4	46.3	-
Hoodoo Creek Mont.	15C1	5900	5/28	64	31.2	47.6	-
Lookout	15B2	5250	5/29	22	11.0	22.8	-
Lost Lake	15B14	6000	6/1	55	32.6	63.8	-
Medicine Ridge	15B4	6150	6/1	60	32.3	45.8	-
Moores Creek Summit	15F1	6100	5/31	0	0.0	9.0	-
Orogrande Mountain	15D4	7800	6/1	88	44.5	43.5	-
Schweitzer Bowl	16A6	4500	5/31	0	0.0	5.7	-
Schweitzer Ridge	16A5	6100	5/31	52	24.8	48.5	-
Shafer Butte	16F7	7480	5/28	0	0.0	-	-
Trinity Mountain	15F5	7780	5/31	24	12.0	-	-

SUPPLEMENTAL MEASUREMENTS - MAY 15, 1968

Anderson Butte (A)	15D7	6800	5/16	69	28.2	36.4	-
Anderson Ridge (A)	15D8	5400	5/16	0	0.0	-	-
Bogus Basin	16F2	6120	5/16	6	2.5	22.7	-
Buck Meadows (A)	15D5	5600	5/16	14	6.4	25.8	-
Copper Butte (A)	15D10	6000	5/16	60	26.9	27.5	-
Disgrace Butte (A)	15D11	6600	5/16	42	17.6	26.9	-
Elk Mountain (A)	15D13	6900	5/16	60	24.6	37.6	-
Falls Point (A)	15C11	4600	5/16	0	0.0	5.4	-
Galena	14F1	7300	5/15	0	0.0	17.0	-
Galena Summit	14F12	8795	5/15	44	17.0	29.6	-
Horse Creek #1 (A)	15C14	5500	5/16	T	T	15.8	-
Horse Creek #4 (A)	15C15	5400	5/16	27	12.6	27.2	-
Horse Point (A)	15D21	5700	5/16	12	5.5	18.9	-
Indian Hill (A)	15D22	6100	5/16	0	0.0	17.2	-
Lookout	15B2	5250	5/16	49	22.7	41.1	-
Meadow Cr. Lookout (A)	15D17	7000	5/16	61	25.0	31.5	-
Moores Creek Summit	15F1	6100	5/17	19	8.3	29.2	-
Mountain Meadows (A)	15D6	6300	5/16	21	9.0	23.6	-
Sable Hill (A)	15D20	6000	5/16	12	5.4	19.6	-
Trinity Mountain	15F5	7780	5/17	46	22.4	-	-

(b) 1948-62, 15 year period. * Not located directly on this drainage. * Estimated 1948-62, 15 year Average. (A) Aerial observation; Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
			DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
NAME	NO.	ELEVATION				LAST YEAR	AVERAGE ^b

SUPPLEMENTAL MEASUREMENTSDECEMBER 1, 1967

Bad Bear	15F2	5500	12/1	10	1.5	--	--
Bogus Basin	16F2	6120	12/1	9	1.9	--	--
Bogus Basin Road	16F4	5360	12/1	5	0.6	--	--
Boulder Creek	16D1	5500	11/30	15	2.0	1.9	--
China Hat	11G2	6300	12/1	4	0.6	--	--
Crumarine Creek	16C6	3500	12/2	5	1.0	0.0	--
East Twin	16C3	4000	12/2	5	1.0	0.0	--
Emigrant Summit	11G6	7350	11/29	5	1.0	--	--
Giveout	11G16	6840	11/29	T	T	--	--
Howard Creek	16C5	3500	12/2	4	1.0	0.0	--
Moore's Creek Summit	15F1	6100	12/2	16	2.9	4.4	--
Moscow Mountain	16C2	4800	12/2	8	1.5	0.0	--
Somsen Ranch	11G1	7000	12/1	9	1.2	--	--
West Twin	16C4	4200	12/2	6	1.0	0.0	--
Willow Flat	11G4	6100	11/29	0	0.0	--	--

DECEMBER 15, 1967

Bad Bear	15F2	5500	12/19	15	2.7	--	--
Bogus Basin	16F2	6120	12/18	26	4.0	5.6	--
Bogus Basin Road	16F4	5360	12/18	12	2.0	--	--
Moore's Creek Summit	15F1	6100	12/19	27	5.0	10.2	--

JANUARY 1, 1968

Anderson Butte (A)	15D7	6800	1/8	63	15.1	--	--
Anderson Ridge (A)	15D8	5400	1/8	13	3.6	--	--
Buck Meadows (A)	15D5	5600	1/8	51	11.6	14.6	--
Copper Butte (A)	15D10	6000	1/8	61	15.9	--	--
Disgrace Butte (A)	15D11	6600	1/8	51	12.2	--	--
Dry Basin (A)	11G14	7900	1/7	48	12.6	--	--
Elk Mountain (A)	15D13	6900	1/8	80	19.2	--	--
Falls Point (A)	15C11	4600	1/8	36	10.8	--	--
Horse Creek #1 (A)	15C14	5500	1/8	49	13.2	--	--
Horse Creek #4 (A)	15C15	5400	1/8	45	12.6	--	--
Horse Point (A)	15D21	5700	1/8	43	11.6	--	--
Horseshoe Basin (A)	11G15	8000	1/7	46	12.1	--	--
Indian Hill (A)	15D22	6100	1/8	36	9.4	--	--
Liberty Spring (A)	11G13	8600	1/7	46	12.1	--	--
Meadow Cr. Lookout (A)	15D17	7000	1/8	61	14.0	--	--
Mountain Meadows (A)	15D6	6300	1/8	55	13.7	10.9	--
Sable Hill (A)	15D20	6000	1/8	36	9.4	--	--
Squaw Flat (A)	16E5	6230	12/28	55	14.4	13.5	--

(b) 1948-62, 15 year period. * Not located directly on this drainage. * Estimated 1948-62, 15 year Average. (A) Aerial observation; Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
			DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
NAME	NO.	ELEVATION				LAST YEAR	AVERAGE ^b

JANUARY 15, 1968

Bogus Basin	16F2	6120	1/15	27	6.6	11.6	--
Galena	14F1	7300	1/16	42	9.2	10.1	--
Galena Summit	14F12	8795	1/16	47	11.3	12.0	--
Moore's Creek Summit	15F1	6100	1/15	41	9.8	15.7	--
Mount Baldy	14F9	9000	1/15	38	8.6	10.2	--
Pierce Rgr. Sta.	15C5	3170	1/15	22	5.2	5.0	--
Trinity Mountain	15F5	7400	1/24	53	16.3	--	--

FEBRUARY 1, 1968

Black Canyon	11E18	7850	2/6	66	20.4	29.0	--
Black Moose	11E19	8125	2/6	76	26.2	31.2	--
Latham Springs	11E16	7650	2/6	67	20.2	31.8	--
Lucky Dog	11E14	6900	2/6	57	16.5	25.4	--
Old Road	11E15	7250	2/6	58	18.2	24.2	--
Poacher's Cabin	11E17	8000	2/6	64	20.8	32.2	--

FEBRUARY 15, 1968

Bogus Basin	16F2	6120	2/16	32	9.0	18.8	--
Dry Basin (A)	11G14	7900	2/10	51	11.5	--	--
Galena	14F1	7300	2/15	44	11.8	17.2	--
Galena Summit	14F12	8795	2/15	51	14.4	19.6	--
Horseshoe Basin (A)	11G15	8000	2/10	48	10.8	--	--
Liberty Spring (A)	11G13	8600	2/10	41	9.3	--	--
Moore's Creek Summit	15F1	6100	2/16	49	13.8	25.2	--
Mount Baldy	14F9	9000	2/16	46	11.2	18.8	--
Pierce Rgr. Sta.	15C5	3170	2/15	20	5.7	8.2	--

MARCH 1, 1968

Dry Basin (A)	11G14	7900	2/25	75	24.9	--	--
Horseshoe Basin (A)	11G15	8000	2/25	68	22.6	--	--

MARCH 15, 1968

Big Springs	11E9	6500	3/14	52	17.5	25.4	--
Bogus Basin	16F2	6120	3/15	39	11.9	20.9	--
Bogus Basin Road	16F4	5360	3/15	T	T	--	--
Fourth of July Summit	16B3	3100	3/14	0	0.0	7.8	--
Galena	14F1	7300	3/15	45	13.8	22.0	--
Galena Summit	14F12	8795	3/15	60	17.7	24.0	--
Island Park	11E10	6315	3/14	42	13.4	19.0	--
Lookout	15B2	5250	3/14	74	27.0	38.4	--
Moore's Creek Summit	15F1	6100	3/15	59	19.9	29.8	--
Mount Baldy	14F9	9000	3/14	48	13.4	24.1	--
Pierce Rgr. Sta.	15C5	3170	3/15	7	2.0	11.2	--

(b) 1948-62, 15 year period. * Not located directly on this drainage. * Estimated 1948-62, 15 year Average. (A) Aerial observation; Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
			DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
NAME	NO.	ELEVATION				LAST YEAR	AVERAGE ^b

MARCH 15, 1968 (Continued)

Prairie	15F6	5600	3/15	T	T	4.6	--
Sherwin	16C1	3200	3/15	15	5.2	13.4	--
Valley View	11E8	6500	3/14	52	17.8	23.9	--

APRIL 1, 1968

Borah (A)	13E8	8250	4/8	16	5.0	6.1	--
Doublespring Pass (A)	13E25	8400	4/8	26	8.1	15.0	--
Keystone (A)	14E6	7700	4/8	6	2.0	--	--
Leatherman Pass (A)	13E24	9800	4/8	72	24.0	30.1	--
Sage Creek (A)	14E5	7800	4/8	16	5.0	11.7	--
Swauger Lake (A)	13E9	9050	4/8	16	5.0	--	--
Twin Peaks (A)	14E3	10300	4/8	71	24.4	30.8	--

APRIL 15, 1968

Anderson Butte (A)	15D7	6800	4/18	91	38.2	--	--
Anderson Ridge (A)	15D8	5400	4/18	21	9.0	--	--
Bad Bear	15F2	5500	4/16	0	0.0	7.2	--
Big Springs	11E9	6500	4/15	40	17.1	--	--
Bogus Basin	16F2	6120	4/15	36	14.8	--	--
Bogus Basin Road	16F4	5360	4/15	0	0.0	--	--
Buck Meadows	15D5	5600	4/18	61	26.8	30.0	--
Copper Butte (A)	15D10	6000	4/18	91	39.1	--	--
Disgrace Butte (A)	15D11	6600	4/18	67	28.1	--	--
Elk Mountain (A)	15D13	6900	4/18	85	35.7	--	--
Falls Point (A)	15C11	4600	4/18	11	2.7	--	--
Fourth of July Summit	16B3	3100	4/15	0	0.0	--	--
Galena	14F1	7300	4/16	32	11.9	24.1	--
Galena Summit	14F12	8795	4/16	55	19.0	29.0	--
Horse Creek #1 (A)	15C14	5500	4/18	30	13.2	--	--
Horse Creek #4 (A)	15C15	5400	4/18	53	22.7	--	--
Horse Point (A)	15D21	5700	4/18	37	15.9	--	--
Indian Hill (A)	15D22	6100	4/18	21	9.0	--	--
Island Park	11E10	6315	4/15	29	11.0	--	--
Lookout	15B2	5250	4/15	85	31.0	41.9	--
Meadow Cr. Lookout (A)	15D17	7000	4/18	86	36.1	--	--
Moore's Creek Summit	15F1	6100	4/16	50	19.8	33.8	--
Mount Baldy	14F9	9000	4/15	46	14.9	27.6	--
Mountain Meadows (A)	15D6	6300	4/18	61	26.2	23.9	--
Prairie	15F6	4900	4/14	0	0.0	0.0	--
Sable Hill (A)	15D20	6000	4/18	36	15.4	--	--
Sawtelle Mountain	11E32	9100	4/15	79	30.9	--	--
Trinity Mountain	15F5	7400	4/12	74	31.0	--	--
Valley View	11E8	6500	4/15	42	17.1	--	--

(b) 1948-62, 15 year period. * Not located directly on this drainage. * Estimated 1948-62, 15 year Average. (A) Aerial observation; Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
			DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
NAME	NO.	ELEVATION				LAST YEAR	AVERAGE ^b

CORRECTIONS TO PREVIOUSLY PUBLISHED 1968 DATAJANUARY 1, 1968

Borah (A)	13E8	8250	1/3	12	2.7	--	--
Sage Creek (A)	14E5	7800	1/3	7	1.6	--	--
Wet Creek Summit (A)	13E7	7600	1/3	16	3.6	6.6	4.8*

FEBRUARY 1, 1968

Antelope Ridge	16G6	5900	1/29	12	2.8	5.9	--
Buck Meadows	15D5	5600	1/31	45	15.4	21.9	--

MARCH 1, 1968

Little Beaver	11G20	6970	2/28	37	11.5	15.3	--
Telfer Ranch	13F6	6000	2/26	23	6.5	10.6	7.9*

APRIL 1, 1968

Above Burke	15B8	4100	4/3	35	15.0	28.5	22.5
Bear Canyon	13F3	7920	4/4	42	13.7	27.2	17.6*
Copper Basin	13F2	7650	4/4	24	8.1	16.8	9.1
Dollarhide Summit (A)	14F8	8620	3/29	51	16.7	26.8	27.4*
Garfield Rgr. Sta.	13F4	6554	3/27	20	6.8	11.6	10.5*
Irving Creek	12E4	7035	4/1	16	5.0	6.6	--
Kellogg Peak	16B5	5560	4/3	54	23.5	36.1	35.8*
Kilgore	11E12	6200	4/5	25	8.9	11.1	10.0
North Fork Meadow (A)	14F15	8150	4/4	27	9.1	17.8	--
Porcupine (A)	14F14	8350	4/4	36	11.5	22.9	--
Roland Summit	15B5	5200	4/3	54	24.8	47.6	44.7*
Sunset	15B9	5600	4/3	66	28.6	44.0	36.3*
Upper Snowhaven	--	5600	3/29	29	10.8	--	--
Webber Creek	12E5	6700	4/1	17	5.0	6.0	--

MAY 1, 1968

Above Gilmore (A)	13E19	8200	5/3	22	9.5	22.2	--
Atlanta Summit	15F4	7500	5/1	57	24.2	40.4	35.9*
Little Beaver	11G20	6970	5/3	13	4.9	16.4	--

(b) 1948-62, 15 year period. * Not located directly on this drainage. * Estimated 1948-62, 15 year Average. (A) Aerial observation; Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

Agencies and Organizations Cooperating in Idaho Snow Surveys

GOVERNMENT AGENCIES

Canada:

Department of Lands, Forests, and
Water Resources, British Columbia
Department of Resources and Development,
Water Resources Division

States:

Idaho State Reclamation Engineer
State of Idaho Department of Fish and Game
University of Idaho
Idaho State University
Montana Agricultural Experiment Station
Montana State Water Conservation Board
Nevada Cooperative Snow Surveys
Oregon Agricultural Experiment Station
Oregon Cooperative Snow Surveys
Oregon State Engineer and Corps of
State Watermasters
Utah Cooperative Snow Surveys
Wyoming Cooperative Snow Surveys

Federal:

U. S. Army Engineers
U. S. Department of Agriculture
Forest Service
Agricultural Research Service
U. S. Department of Commerce
Environmental Sciences Service Administration,
Weather Bureau
U. S. Department of the Interior
Bonneville Power Administration
Bureau of Reclamation
Fish and Wildlife Service
Water Resources Division, Geological Survey
Indian Service
National Park Service
Bureau of Land Management

PUBLIC UTILITIES

The Montana Power Company
Washington Water Power Company
Idaho Power Company
Utah Power and Light Company

ORGANIZED PUBLIC AGENCIES

Big Lost River Irrigation District
Boise Project Board of Control
Little Wood River Irrigation District
Jordan Valley Irrigation District
Salmon Falls Creek Irrigation Company
Twin Falls Soil Conservation District
Twin Lakes Irrigation Company
Big Wood Irrigation Company
Owyhee Project - North & South Board of Control

PRIVATE CORPORATIONS

Amalgamated Sugar Company

*Other organizations and individuals furnish valuable information for
snow survey reports. Their cooperation is gratefully acknowledged.*

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
P.O. BOX 38

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necessary for forecasting
water supply for irrigation,
domestic and municipal water
supply, hydro-electric power
generation, navigation,
mining and industry

*"The Conservation of Water begins
with the Snow Survey"*

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